

Claims

- [c1] A blow mold parison closing apparatus comprising:
 - an attachment block having a cylinder body mount and holder/guide support;
 - a pinch bar spaced apart from said attachment block, said pinch bar having a cylinder piston mount and holder/guide mount; and
 - a holder/guide slidingly supported by said attachment block and coupled to said pinch bar, said holder/guide configured to hold a spring between said pinch bar and attachment block and guide the motion of said pinch bar relative to said attachment block whereby relative motion between said attachment block and pinch bar may be controlled by either a spring or a cylinder each easily interchangeable from said closing apparatus.
- [c2] The blow mold parison closing apparatus of claim 1 including a cylinder having a body and piston, said body attached to said attachment block and said piston attached to said pinch bar.
- [c3] The blow mold parison closing apparatus of claim 1 including a spring disposed around said holder/guide and between said attachment block and pinch bar.

- [c4] The blow mold parison closing apparatus of claim 1 including at least two holder/guides slidingly supported by said attachment block and coupled to said pinch bar.
- [c5] The blow mold parison closing apparatus of claim 4 including a spring disposed around each holder/guide.
- [c6] The blow mold parison closing apparatus of claim 1 further including a bearing supported by the attachment block, said bearing supporting said holder/guide.
- [c7] The blow mold parison closing apparatus of claim 2 including a second cylinder having a body and piston, said body attached to said attachment block and said piston attached to said pinch bar.
- [c8] A blow mold comprising:
 - first and second mold halves;
 - a parison closing apparatus including:
 - an attachment block having a cylinder body mount and holder/guide support;
 - a pinch bar spaced apart from said attachment block, said pinch bar having a cylinder piston mount and holder/guide mount; and
 - a holder/guide slidingly supported by said attachment block and coupled to said pinch bar, said holder/guide configured to hold a spring between said pinch bar and

attachment block and guide the motion of said pinch bar relative to said attachment block whereby relative motion between said attachment block and pinch bar may be controlled by either a spring or a cylinder each easily interchangeable from said closing apparatus.

- [c9] The blow mold of claim 8 including two parison closing apparatus, the first parison closing apparatus affixed to said first mold half and the second parison closing apparatus affixed to said second mold half.
- [c10] A method of retrofitting actuators upon a blow mold parison closing apparatus comprising the steps of: detaching a pinch bar from a holder/guide, said holder/guide being slidingly supported by an attachment block; removing a spring from around said holder/guide; attaching a cylinder to said attachment block; and reattaching said pinch bar to said holder/guide.
- [c11] The method of Claim 10 wherein said cylinder includes a piston and further including the step of attaching said cylinder piston to said pinch bar.